

JetScreen! LT

High Tech CtS System with UV Lasers
for Large Formats



BASED ON INNOVATION.

luscher
Technologies

New Benchmark in Digital Screen Making

BUILT FOR HIGHEST REQUIREMENTS IN SCREEN PRINTING

FOR MORE THAN 70 YEARS, LÜSCHER HAS BEEN DESIGNING AND MANUFACTURING MACHINERY FOR THE GRAPHIC ARTS INDUSTRY. AS EARLY AS 1992, LÜSCHER INTRODUCED JETSCREEN TO THE WORLD MARKET: A COMPUTER TO SCREEN (CTS) SYSTEM USING BOTH INKJET AND HOTMELT TECHNOLOGY – COMMONLY USED IN THE 90'S. IT WAS THE FIRST OF ITS KIND AND HAVING NOTCHED UP MORE THAN 700 INSTALLATIONS, JETSCREEN WAS THE MOST SUCCESSFUL CTS SYSTEM OF ITS TIME.

Latest Generation

JetScreen! LT stands for an entirely new generation of CtS system using the same Swiss precision engineering and CtS know-how, but supplemented by state-of-the-art laser technology developed by Lüscher Technologies AG. This equipment sets new standards in digital imaging of printing screens and is available in various formats up to 5500 x 3200 mm.

Tailored to Customer Needs

The laser configuration of JetScreen! LT can be optimally adapted to match customer requirements. Equipped with a maximum of 128 laser diodes in the UV range of 405 nm, the system is able to reach an exposure speed of up to 45 m² per hour at a resolution of 635 dpi*. The desired quality and speed ratio can be optimised by means of a new Trioptic! system – allowing a choice of three resolutions: 635, 1270 and 2540 dpi.

*) The exposure speed depends on the type of fabric used, the quantity of laser diodes and the sensitivity of the emulsion.



Laser Exposure System for Any Coating

- LÜSCHER TRIOPTIC! SYSTEM WITH RESOLUTION OF 635 / 1270 / 2540 DPI
- UPGRADE TO A HIGHER NUMBER OF LASERS ON SITE AT ANY TIME
- FULLY AUTOMATIC CALIBRATION OF LASERS PRIOR TO EVERY EXPOSURE
- DYNAMIC AUTOFOCUS
- OUTPUT PERFORMANCE UP TO 45 M²/H (DEPENDING ON CONFIGURATION)
- AUTOMATIC SCREEN FEED (OPTIONAL)
- CUSTOMARY EMULSIONS AND THICK LAYERS CAN BE IMAGED AND HARDENED
- ULTRA-LONG SERVICE LIFE OF LASER DIODES WITH MORE THAN 20'000 EXPOSING HOURS
- NO CONSUMABLES
- LOW MAINTENANCE AND ENERGY COSTS



High-Performance Equipment Meeting Your Particular Needs

Lüscher Trioptic!-System

Depending on the specific quality requirements, the desired resolution can be selected at the touch of a button. Be it 635, 1270 or 2540 dpi: the resolution is directly related to the output performance, thus JetScreen! LT always operates in an optimal quality and speed range. As an option, some JetScreen! LT types are available with a resolution of up to 5080 dpi.

UV Laser Technology

The fibre-coupled laser diodes operate in the 405 nm range and are characterised by an ultra-long service life of more than 20'000 exposing hours. They are absolutely maintenance-free and are cooled by Peltier elements.

High Performance Reserves

The laser diodes have a high power capacity, so their energy can be adapted to the requirements of every coating. There is no need for high speed coatings: Any standard emulsion or thick layer can be imaged and cured by JetScreen! LT.

Highest Exposure Quality

The optional X!Tend software pushes past the physical limits of screen printing: X!Tend allows imaging of finer graphic elements compared to any standard imaging technique.



Fully Automatic Calibration

Prior to every exposure, the system checks the default laser settings relating to the coating to be imaged and automatically checks and calibrates the laser diodes if necessary. This saves time and virtually eliminates exposure errors.

Lowest Maintenance and Energy Cost

JetScreen! LT does not require any consumables such as metal halide lamps, LEDs or DMD chips. Its extremely low power consumption of 2 kW guarantees the lowest possible operating costs. Every JetScreen! LT is equipped with a port for Remote Support Service, which can be directly linked to our hotline via internet.

Inline Processing

As an option, an automatic screen feeder can be added to JetScreen! LT to be integrated in an inline throughput system.

Custom Engineering

Every machine is designed and built according to individual customer needs. We will be glad to assist you in designing your own JetScreen! LT.



Technical Specifications

Machine type*	Max. frame size	Max. exposure area	Machine dimensions (LxWxH)	Weight
*) A=Automatic/Inline / M=Manually				
JetScreen! LT 15/12A	1500 x 1200 mm (59.0 x 47.2 inch)	1500 x 1140 mm (59.0 x 44.8 inch)	3400 x 1720 x 2780 mm (133.8 x 67.7 x 109.4 inch)	2850 kgs (6283.1 lbs)
JetScreen! LT 15/15M	1500 x 1500 mm (59.0 x 59.0 inch)	1500 x 1440 mm (59.0 x 56.6 inch)	3400 x 1720 x 2780 mm (133.8 x 67.7 x 109.4 inch)	2850 kgs (6283.1 lbs)
JetScreen! LT 22/15A	2200 x 1500 mm (86.6 x 59.0 inch)	2200 x 1440 mm (86.6 x 56.6 inch)	4000 x 1720 x 3080 mm (157.4 x 67.7 x 121.2 inch)	3400 kgs (7495.7 lbs)
JetScreen! LT 22/18M	2200 x 1800 mm (86.6 x 70.8 inch)	2200 x 1740 mm (86.6 x 68.5 inch)	4000 x 1720 x 3080 mm (157.4 x 67.7 x 121.2 inch)	3400 kgs (7495.7 lbs)
JetScreen! LT 35/19A	3500 x 1900 mm (137.7 x 74.8 inch)	3500 x 1840 mm (137.7 x 72.4 inch)	5300 x 1720 x 3480 mm (208.6 x 67.7 x 137.0 inch)	3700 kgs (8157.1 lbs)
JetScreen! LT 35/22M	3500 x 2200 mm (137.7 x 86.6 inch)	3500 x 2140 mm (137.7 x 84.2 inch)	5300 x 1720 x 3480 mm (208.6 x 67.7 x 137.0 inch)	3700 kgs (8157.1 lbs)
JetScreen! LT 42/19A	4200 x 1900 mm (165.3 x 74.8 inch)	4200 x 1840 mm (165.3 x 72.4 inch)	6000 x 1720 x 3480 mm (236.2 x 67.7 x 137.0 inch)	4000 kgs (8818.4 lbs)
JetScreen! LT 42/22M	4200 x 2200 mm (165.3 x 86.6 inch)	4200 x 2140 mm (165.3 x 84.2 inch)	6000 x 1720 x 3480 mm (236.2 x 67.7 x 137.0 inch)	4000 kgs (8818.4 lbs)
JetScreen! LT 42/23A	4200 x 2300 mm (165.3 x 90.5 inch)	4200 x 2240 mm (165.3 x 88.1 inch)	6000 x 1720 x 3880 mm (236.2 x 67.7 x 152.7 inch)	4500 kgs (9920.8 lbs)
JetScreen! LT 42/26M	4200 x 2600 mm (165.3 x 102.3 inch)	4200 x 2540 mm (165.3 x 100.0 inch)	6000 x 1720 x 3880 mm (236.2 x 67.7 x 152.7 inch)	4500 kgs (9920.8 lbs)
JetScreen! LT 46/23A	4600 x 2300 mm (181.1 x 90.5 inch)	4600 x 2240 mm (181.1 x 88.1 inch)	6400 x 1720 x 3880 mm (251.9 x 67.7 x 152.7 inch)	4800 kgs (10582.1 lbs)
JetScreen! LT 46/26M	4600 x 2600 mm (181.1 x 102.3 inch)	4600 x 2540 mm (181.1 x 100.0 inch)	6400 x 1720 x 3880 mm (251.9 x 67.7 x 152.7 inch)	4800 kgs (10582.1 lbs)
JetScreen! LT 46/29A	4600 x 2900 mm (181.1 x 114.1 inch)	4600 x 2840 mm (181.1 x 111.8 inch)	6400 x 1720 x 4480 mm (251.9 x 67.7 x 176.3 inch)	5300 kgs (11684.5 lbs)
JetScreen! LT 46/32M	4600 x 3200 mm (181.1 x 125.9 inch)	4600 x 3140 mm (181.1 x 123.6 inch)	6400 x 1720 x 4480 mm (251.9 x 67.7 x 176.3 inch)	5300 kgs (11684.5 lbs)
JetScreen! LT 55/29A	5500 x 2900 mm (216.5 x 114.1 inch)	5500 x 2840 mm (216.5 x 111.8 inch)	7200 x 1720 x 4480 mm (283.4 x 67.7 x 176.3 inch)	6000 kgs (13227.7 lbs)
JetScreen! LT 55/32M	5500 x 3200 mm (216.5 x 125.9 inch)	5500 x 3140 mm (216.5 x 123.6 inch)	7200 x 1720 x 4480 mm (283.4 x 67.7 x 176.3 inch)	6000 kgs (13227.7 lbs)
Other formats on request				
Trioptic! resolution	635 / 1270 / 2540 dpi			
Resolution optimal	5080 dpi			
Productivity	up to 45 m ² /h			
Laser type	UV, 405 nm			
Number of lasers	64 / 80 / 96 / 112 / 128			
Data format	1 Bit TIFF			
Autofocus	Dynamic focus standard			
Power supply	3 x 400 V + N + PE, 50-60 Hz, 32 A, 2 kW			
Air supply	6 -10 bar, 40 l/min.			
Ambient conditions	50-65% humidity at 18-25°C (64.4 -77 ° F)			
Room conditions	yellow light, vibration-free floor			

JetScreen! LT

PERFECT SOLUTION FOR:

- PRINTED ELECTRONICS
- AUTOMOTIVE
- GLASS PRINTING
- TRANSFER PRINTING
- LABELS
- INDUSTRIAL SCREEN PRINTING





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